GOVERNMENT OF INDIA
ATOMIC ENERGY
LOK SABHA

UNSTARRED QUESTION NO:5721
ANSWERED ON:03.05.2000
MAINTENANCE OF ATOMIC ENERGY PLANTS
RASA SINGH RAWAT

Will the Minister of ATOMIC ENERGY be pleased to state:

(a) the number of atomic reactor in Rajasthan at present alongwith the dates of their setting up and installed capacities, separately;

(b) the reasons for frequent closure of some of these atomic reactor;

(c) whether the country do not have the know how to repair them or their construction is flawed or they have become outdated;

(d) the quantum of atomic energy generated in each of these reactors;

(e) the year-wise amount spent on the maintenance of these plants during the last three years till date?

Answer

THE MINISTER OF STATE IN THE DEPARTMENT OF ATOMIC ENERGY

(SMT. VASUNDHARA RAJE)

(a) Presently, four units RAPS-1 (100 MWe), RAPS-2 (200 MWe) RAPP-3&4(2X220 MWe) are located at Rawatbhata inRajasthan. RAPS-1 and RAPS-2 commenced commercialoperation in the years 1973 and 1981 respectively. RAPP-3 after completion was synchronised to the grid for the first time on 10.3.2000 and RAPP-4 is expectedto be completed for achieving criticality in the year 2000.

(b) RAPS-2 which came on line after the en-masse coolantchannel replacement has been performing well and recorded availability factors of 80% and 83% during the financial years 1998-99 and 1999-2000 respectively.

RAPS-I which came on line after the repair of Over Pressure Relief Device (OPRD) leak recorded availability factors of about 49% 67% and 71% during the financial years 1997-98, 1998-99, 1999-2000 respectively, indicating a progressively improving trend of performance. The unit had repeated problems in its turbine generator during the years 1997-98 and 1998-99.

(c) The country has all the knowhow, capability and expertise to take up complex repair and refurbishment works in its operating nuclear power plants.

(d) The quantum of electrical energy generated from RAPS-1&2 during the last three years is given below :

Electrical energy in Million Units (MUs)

	1997-98	1998-99	1999-2000
RAPS-1	480	827	934
RAPS-2		990	1405

(e) The total expenditures incurred towards running RAPS-1and RAPS-2, which includes cost relating to fuel, heavy water, operation and maintenance, depreciation and interest during the last three years, are given below:

Expenditure - Rupees in Crores.

1997-98	1998-99	1999-2000(Provisional)

RAPS-1	81.93	106.09	124.41
	(21.22)	(22.12)	(37.24)
RAPS-2		132.28	176.67
	(21.37)	(38.12)	

RAPS-2 was under en-masse coolant channel replacement and up-gradation works up to June 1998.

Note - The break-up of `operation & maintenance` expenditure is given in brackets.